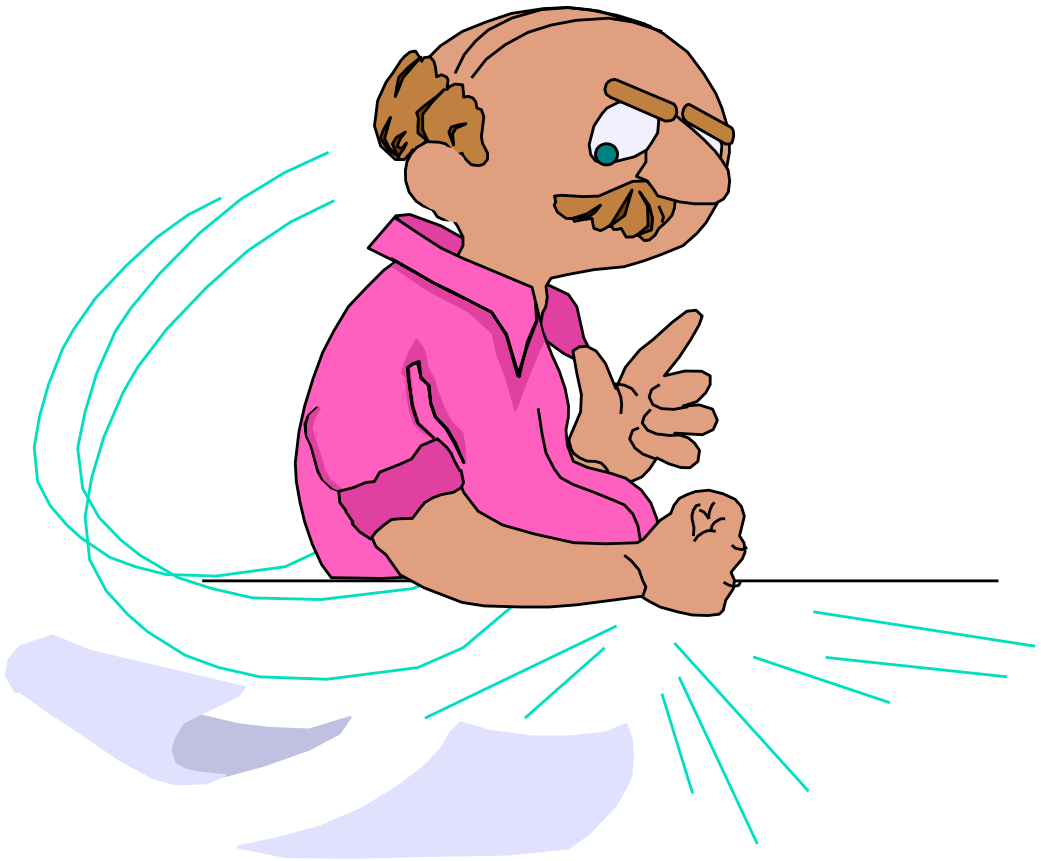
PERMIT REQUIRED CONFINED SPACE ENTRY



PURPOSE OF PROGRAM

- TO IDENTIFY & EXPOSE INHERENT DANGER OF CONFINED SPACES
- PROVIDE STRICT GUIDELINES TO PERSONNEL OPERATING IN A POTENTIALLY HAZARDOUS ENVIRONMENT
- GREATLY REDUCE THE RISK OF POTENTIAL INJURY AND/OR DEATH

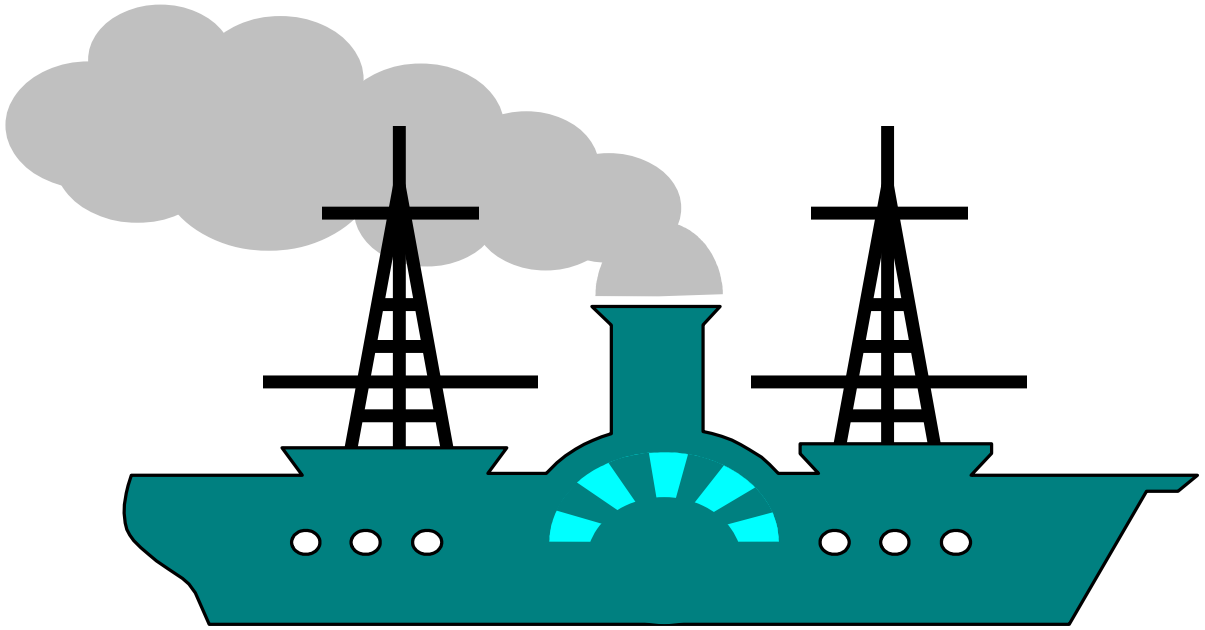
WHAT IS A CONFINED SPACE?

ENCLOSURES THAT ARE :

- NOT DESIGNED FOR ROUTINE OCCUPANCY BUT LARGE ENOUGH AND SO CONFIGURED THAT PERSONNEL CAN ENTER TO PERFORM A JOB-RELATED TASKING

WHAT IS A CONFINED SPACE (CONT)

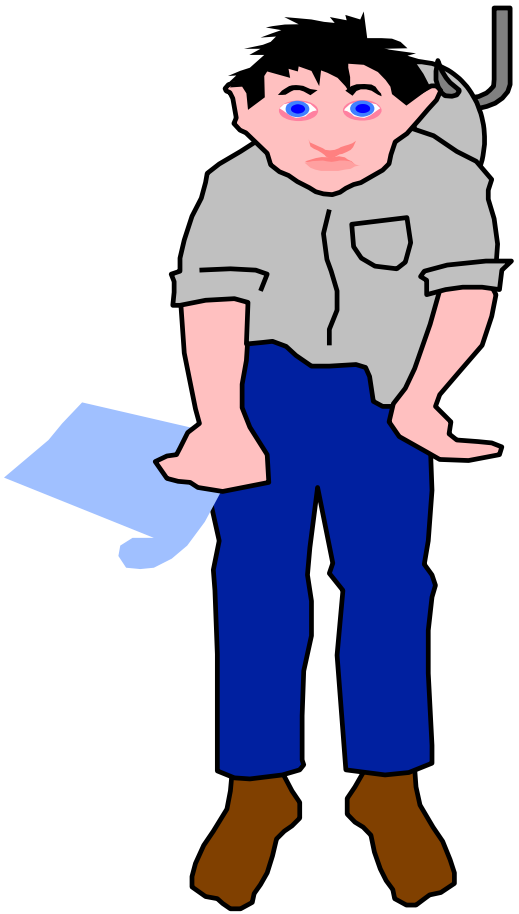
- INCLUDING BREATHING ZONE ENTRY
- POOR OR NO VENTILATION
- RESTRICTED ACCESS/EXIT



HAZARDS ASSOCIATED WITH A CONFINED SPACE

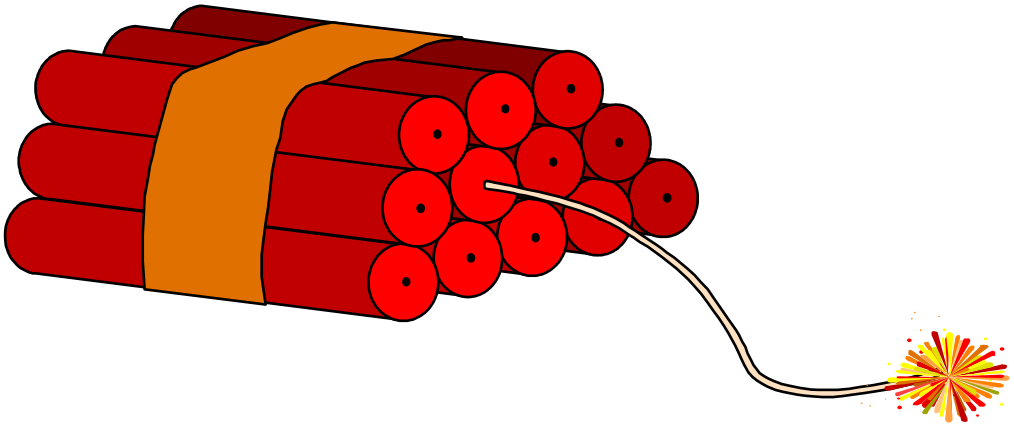
LACK OF SUFFICIENT OXYGEN TO SUPPORT LIFE < 20%

OXYGEN ENRICHED ENVIRONMENT WHICH CREATES THE POTENTIAL FOR FIRE OR EXPLOSION > 22%



HAZARDS ASSOCIATED WITH A CONFINED SPACE (CONT)

PRESENCE OF TOXIC
OR EXPLOSIVE ATMOSPHERES



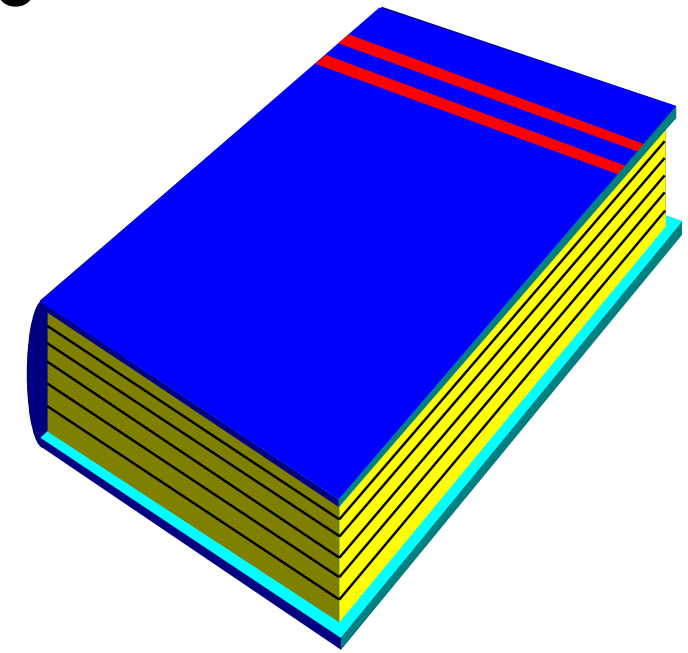
HAZARDS ASSOCIATED WITH A CONFINED SPACE (CONT)

PHYSICAL HAZARDS:

MACHINERY, ELECTRICAL, CABLES OBSTRUCTIONS, POOR ILLUMINATION, ENGULFMENT, SLIPPERY SURFACES

STANDARDS

- 29 CFR 1910.146
- NAVSEA S6470-AA-SAF-010
- NAVAIR 01-1A-35
  (Aviation Gas Free
  Engineering)
- MCO 5100.8F, Chapter 14



COMMANDING OFFICER'S RESPONSIBILITIES

- ESTABLISH PROGRAM

- CONDUCT PROGRAM BY ASSIGNMENT IN WRITING OF CONFINED SPACE ENTRY/GAS FREE ENGINEERS (CSE/GFE), ASSISTANTS AND TECHNICIANS

COMMANDING OFFICER'S RESPONSIBILITIES (CONT)

- EVALUATE THE CONFINED SPACE ENTRY/GAS FREE ENGINEER PROGRAM (CSE/GFEP)

SUPERVISOR'S RESPONSIBILITIES

CONTACT A STATION CSE/GFE BEFORE CONDUCTING ANY OPERATIONS INVOLVING CONFINED/RESTRICTED SPACE ENTRY

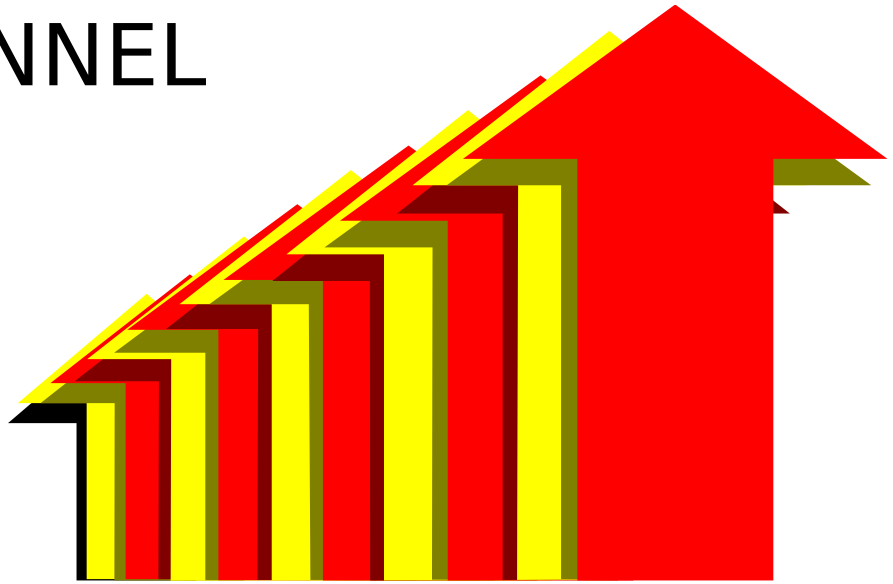
SUPERVISOR'S RESPONSIBILITIES (CONT)

CONTACT A STATION CSE/GFE AND STATION FIRE PREV/DEPT PRIOR TO OPERATIONS THAT INVOLVE HOT WORK IN, ON OR ADJACENT TO CONFINED OR RESTRICTED SPACES

HOT WORK DEFINED AS ANYTHING HEAT PRODUCING OPERATION THAT EXCEEDS 450 deg. F

SUPERVISOR'S RESPONSIBILITIES (CONT)

ENSURE THAT SAFETY PRECAUTIONS COVERED IN THIS CLASS INSTRUCTION ARE COMPLIED WITH AS APPLICABLE BY ALL ASSIGNED PERSONNEL



SUPERVISOR'S RESPONSIBILITIES (CONT)

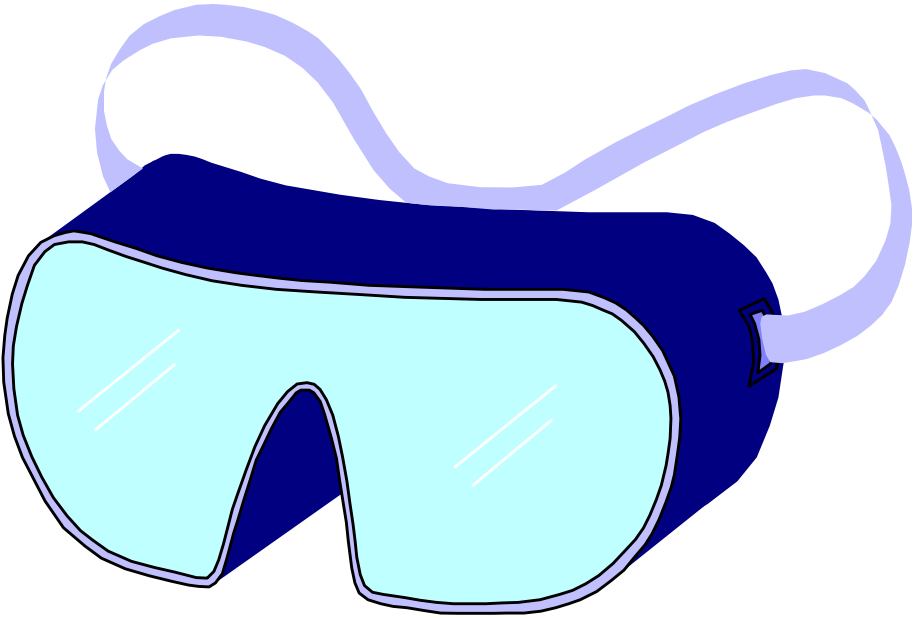
- ENSURE PERSONNEL ARE INSTRUCTED ON PRECAUTION OF EACH SPACE PRIOR TO ENTRANCE
- ENSURE ALL PERSONNEL TO ENTER HAVE HAD TRAINING
- REQUEST ASSISTANCE/TRAINING FROM THE STATION CSE/GFE AS REQUIRED

DOCUMENT ALL TRAINING!

SUPERVISOR'S RESPONSIBILITIES (CONT)

- IDENTIFICATION OF HAZARDS TO PERSONNEL
- COMPLY WITH APPROPRIATE SAFETY MEASURES

SUPERVISOR'S RESPONSIBILITIES (CONT)



ENSURE PERSONNEL ARE MEDICALLY FIT

ENSURE PERSONNEL ARE TRAINED IN REQUIRED PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING

BASIC ELEMENTS OF PROGRAM

THE CONFINED SPACE PROGRAM MANAGER/GAS FREE ENGINEER (CSPM/GFE) SHALL:

* IDENTIFY ALL CONFINED SPACES AND CLASSIFY AS CLASS I, II OR III

BASIC ELEMENTS OF PROGRAM (CONT)

* EVALUATE HAZARDS FOR PERSONNEL

* REGULATE AND CONTROL ACCESS VIA PERMITS

CLASS I SPACE

SPACES THAT CONTAIN ATMOSPHERES OR CONDITIONS THAT ARE IMMEDIATELY DANGEROUS TO LIFE OR HEALTH (IDLH)

IDLH SPACE

- FLAMMABLE GASES OR VAPORS AT A CONCENTRATION OF 10% OR GREATER OF THE LOWER EXPLOSIVE LIMIT

- OXYGEN < 16.5% OR > 22.0%

IDLH SPACE (CONT)

- PRESENCE OF TOXIC AGENTS WHICH EXCEED THE LEVEL AT WHICH AN INDIVIDUAL CAN ESCAPE WITHIN 30 MINUTES

- ANY COMBINATION OF THE ABOVE

CLASS II SPACE

- SPACES THAT CONTAIN ATMOSPHERES OR CONDITIONS WHICH ARE DANGEROUS BUT NOT LIFE-THREATENING

- FLAMMABLE ATMOSPHERES >1% BUT < 10% LEL

CLASS II SPACE (CONT)

- OXYGEN > 16.5% BUT < 19.5%
- TOXIC AGENTS THAT ARE NOT IDLH BUT AT OR ABOVE THE PERMISSIBLE EXPOSURE LIMITS
- ANY COMBINATION OF THE ABOVE

CLASS III SPACE

- SPACES THAT CONTAIN ATMOSPHERES OR CONDITIONS THAT ARE CONTAMINATED BUT NOT DANGEROUS OR IDLH

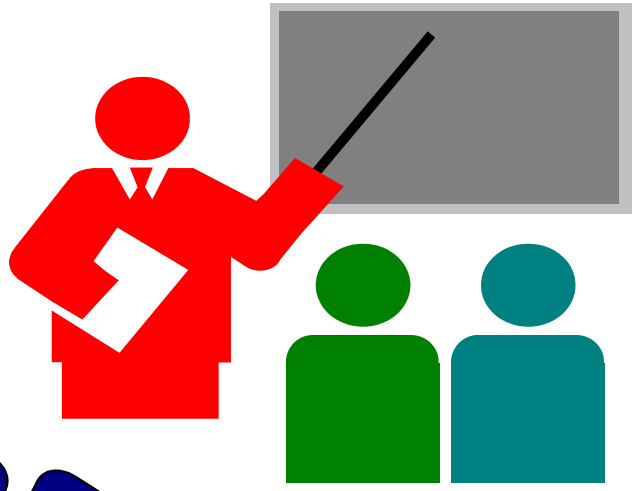
- FLAMMABLES OR FLAMMABLE ATMOSPHERES < 1% OF LEL

CLASS III SPACE (CONT)

- OXYGEN CONSISTENT WITH OUTSIDE AMBIENT CONDITIONS (20-21%)
- TOXIC AGENTS BELOW PERMISSIBLE EXPOSURE LIMITS
- ANY COMBINATION OF THE ABOVE

CSE REQUIREMENTS FOR PERSONNEL

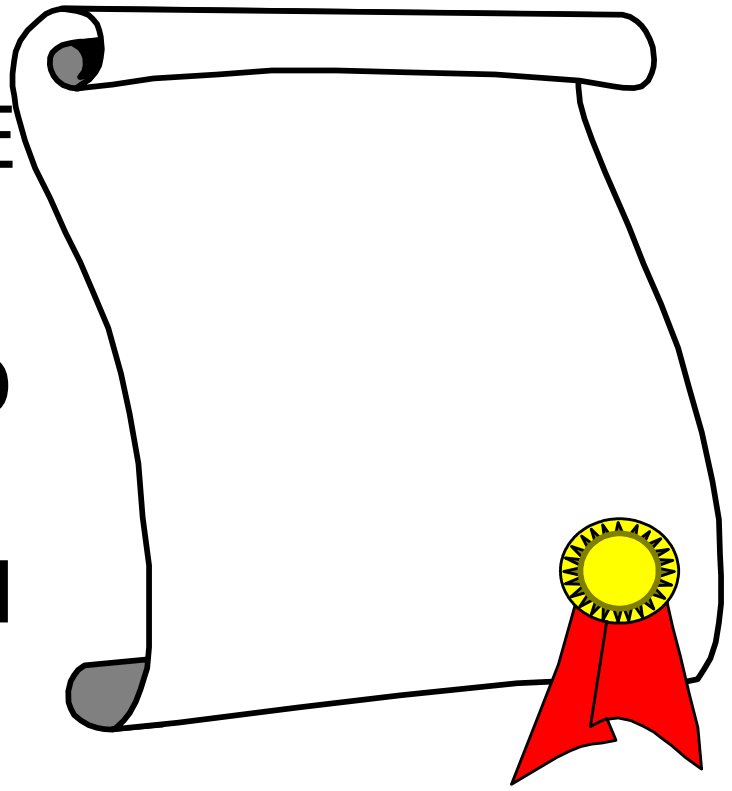
- TRAINING FROM SUPERVISOR
- PRE-PLACEMENT EXAMINATION
- TERMINATION EXAMINATION



DISTRIBUTION OF PERMIT

- ONE COPY TO BE POSTED AT THE PRIMARY ENTRANCE TO THE SPACE

- ONE COPY TO BE POSTED AT ALL OTHER ENTRY POINTS WHICH ARE OPEN AND ACCESSIBLE TO PERSONNEL



DISTRIBUTION OF PERMIT (CONT)

- ONE COPY TO THE LINE MANAGER REQUESTING THE PERMIT

- ONE COPY RETAINED BY THE CSPM/GFE FOR ONE YEAR FROM THE PERMIT DATE.

THIS INCLUDES REJECT PERMITS

TRAINING REQUIREMENTS

- THE CSPM/GFE SHALL SUCCESSFULLY COMPLETE OSHA COURSE 226 OR NAVOSHENVTRAINCEN COURSE #S0-240, CONFINED SPACE SAFETY (FORMERLY OSH-245E) OR ITS EQUIVALENT

TRAINING REQUIREMENTS (CONT)

- QUALIFIED ASSISTANTS AND TECHNICIANS SHALL BE TRAINED AND RECOMMENDED FOR CERTIFICATION BY THE CSPM/GFE

- CERTIFICATION CAN ONLY BE OBTAINED BY THE COMMANDING OFFICER OF THE ACTIVITY YOU ARE ASSIGNED TO

TRAINING REQUIREMENTS (CONT)

- SUPERVISORS SHALL HAVE SUCCESSFULLY COMPLETED THIS COURSE
- NON-SUPERVIORY PERSONNEL TO BE TRAINED BY SUPERVISORS AS OUTLINED IN THIS CLASS

ENTRY INTO CLASS I OR CLASS II SPACE

- CSE/GFE PERMIT REQUIRED TO BE POSTED
- ATTENDANTS MANDATORY

ENTRY INTO CLASS I OR CLASS II SPACE (CONT)

NOTE: ENTRY INTO CLASS I SPACE FOR EMERGENCIES ONLY

NOTE: ENTRY INTO CLASS II SPACE FOR EMERGENCY MAINTENANCE ONLY

FUNCTION OF ATTENDANTS

- MONITOR CONDITIONS OF PERSONNEL INSIDE BY VISUAL AND/OR VERBAL CONTACT

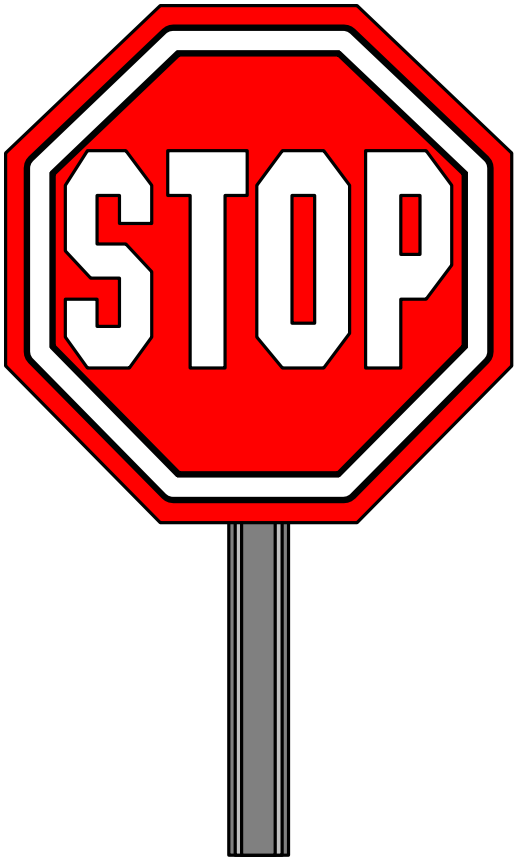
- CPR CERTIFIED (MUST BE CURRENT AND HOLD CARD)

FUNCTION OF ATTENDANTS (CONT)

- SHALL HAVE NO ADDITIONAL DUTIES ASSIGNED

NO ATTEMPT WILL BE MADE TO RESCUE PERSONNEL UNTIL AFTER RESCUE TEAM ARRIVES!!!

CONFINED SPACE EMERGENCIES



CONFINED SPACE EMERGENCIES (CONT)

DO NOT ENTER THE SPACE TO SAVE THE VICTIM!!

REMOVE/HOIST PERSONNEL BY LIFELINE WHEN AVAILABLE

CALL EMERGENCY RESCUE IMMEDIATELY

CONFINED SPACE EMERGENCIES (CONT)

STATE THAT A CONFINED SPACE EMERGENCY HAS OCCURRED

GIVE SPECIFIC LOCATION AND ANY OTHER PERTINENT INFORMATION

REQUEST EMERGENCY RESPONSE TEAM

CONFINED SPACE SELF TEACHING REQUIREMENTS

- IN ORDER TO TEACH THIS CLASS AT YOUR COMMAND YOU MUST:

1) BE A SUPERVISOR AND/OR TECHNICIAN

AND

2) HAVE ATTENDED THIS CLASS